To the Claims:

1.   (currently amended)   A method for designing a liquid crystal display device, implemented in a computing system, the method comprising the steps of:

[[based upon]]measuring at least one viewing angle among a plurality of liquid crystal display films, and determining a range of a cell gap between liquid crystal adjacent cells of a liquid crystal display device;

[[based upon the]]calculating a panel transmittance rate and a gamut of a plurality of liquid crystal modules, and determining at least one value of the range of the cell gap between liquid crystal cells of the liquid crystal display device;

[[based upon]]obtaining optic characteristics of a plurality of color filter films and color modules, and determining a set of optic characteristics for a color filter as well as for the liquid crystal display device; and

adjusting values related to the set of optic characteristics of the liquid crystal display device and the color filter, thereby producing a set of adjusted values for present as well as future design purposes.

2.   (original)   The method of claim 1, wherein the range of the gap is determined using at least two values of the gaps of the plurality of liquid crystal display films along with the viewing angles corresponding thereto, thereby establishing a formula expressing the range using the values of the gaps and their corresponding viewing angles.

3.   (original)   The method of claim 2, wherein the formula is obtained using trendline

regression.

4.   (currently amended)   The method of claim 1, wherein the at least one value of the gap

between liquid crystal cells of the liquid crystal display device is determined using the panel

transmittance rate and gamut of a plurality of liquid crystal modules for establishing a plurality

of relationships between the panel transmittance rate and the gamut therewith.

5.   (currently amended)   The method of claim 4, wherein the panel transmittance rate is

defined as follows:

panel transmittance rate = Y * aperture ratio correction * gap of liquid crystal cell correction *

measured value correction,

where Y denotes optic characteristic co-ordinate values; aperture ratio correction is defined as the

ratio of product or device aperture rate with the standard module opening rate; and the gap of

liquid crystal cell correction is a ratio of a liquid crystal transmittance of a target cell gap to a

liquid crystal transmittance of a reference cell gap, based on a statistic relation between

parameters of liquid crystal transmittance and cell gap[[is derived using a predetermined gap

value and equation (2)]].

6   (currently amended)   The method of claim 4, wherein the relationship between the panel

transmittance rate and the gamut is determined by trendline regression.

7.   (original)   The method of claim 1, wherein the optic characteristics of the module are

determined by color filter film thickness.

8.   (original)   The method of claim 7, wherein the optic characteristics of the module are

derived using trendline regression.

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9.   (original)   The method of claim 1, wherein the optic characteristics include a set of products, wherein each product has factor one which is the ratio of measured value with modeled value and factor two which is a correction of the optic characteristics.

10.   (original)   The method of claim 1, wherein the color module includes liquid crystal film and color filter film.

11.   (currently amended)   A method for designing a liquid crystal display module suitable for [[developing]]being implemented in a system for designing a product, the system includes a database, wherein the database stores information of   color characteristic parameters relating to a plurality of liquid crystal [[film]]films, to a plurality of color filter [[film]]films, to a plurality of testing modules, and to a plurality of standard module are stored therein, the method comprising the steps of:

[[based upon]]measuring data relating to a plurality of liquid crystal cell gaps and [[their]] respective viewing angle, providing an expression of the relationships between the viewing angles and cell gaps, and deriving a range of the cell gaps;

[[based upon]] calculating a data relating to a plurality of panel transmittance rate and their respective color gamut, providing an expression of the relationships between the plurality of panel transmittance rate and their respective color gamut, and deriving at least one cell gap value;

[[based upon]]obtaining data relating to the plurality of color filter films and testing modules, and providing a set of expressions of relationships including the relationship of color filter film thickness with color filter characteristics, the relationship of color filter characteristics

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with liquid crystal testing module, and determining color filter standard and product standard

based upon the above relationship; and

correcting product color characteristics based upon the ratio of measured value with

modeling value.

12   (original)   The method of claim 11, wherein the testing module includes at least one

liquid crystal film and a set of color filter films.

13.   (original)   The method of claim 11, wherein the expression of the relationships

between the viewing angles and cell gaps are expressed using trend line regression.

14.   (currently amended)   The method of claim 11, wherein the panel transmittance rate is

defined as follows:

panel transmittance rate = Y * aperture ratio correction * gap of liquid crystal cell   correction *

measured value correction,

where Y denotes optic characteristic co-ordinate values; aperture ratio correction is defined as the

ratio of product or device aperture rate with the standard module opening rate; and the gap of

liquid crystal cell correction is a ratio of a liquid crystal transmittance of a target cell gap to a

liquid crystal transmittance of a reference cell gap, based on a statistic relation between

parameters of liquid crystal transmittance and cell gap[[is derived using a predetermined gap

value and equation (2)]].

15.   (currently amended)   The method of claim 11, wherein the relationship between the

panel transmittance rate and the gamut is determined by trendline regression.

16.   (original)   The method of claim 11, wherein the expressions of relationship is derived

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using trendline regression.

17.   (currently amended)   A system for designing a liquid crystal module for designing a

prototype of a product, the system includes means for performing a method comprising the

following steps:

[[based upon]]according to at least one viewing angle among a plurality of liquid

crystal display films, and determining a range of a gap between liquid crystal cells of a liquid

crystal display device;

[[based upon]]calculating   the panel transmittance rate and gamut of a plurality

of liquid crystal modules, and determining at least one value of the gap between liquid crystal

cells of the liquid crystal display device;

[[based upon]]obtaining optic characteristics of a plurality of color filter films and

color modules, and determining a set of optic characteristics for a color filter as well as for the

liquid crystal display device; and

adjusting values related to the set of optic characteristics of the liquid crystal

display device and the color filter, thereby producing a set of adjusted values for present as well

as future design purposes.

18.   (original)   The system of claim 17, wherein the steps of the method are implemented

using a computer program.

19.   (currently amended)   A system for designing a liquid crystal module for designing a

prototype of a product, the system includes a data base, wherein color characteristic parameters

relating to a plurality of liquid crystal film, to a plurality of color filter film, to a plurality of

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testing modules, and to a plurality of standard module are stored therein, the system <u>has an</u>

<u>operation process, the operation process</u>[[includes a method]] comprising the steps of:

[[based upon]]<u>measuring</u> data relating to a plurality of liquid crystal cell gaps and their

respective viewing angle, providing an expression of the relationships between the viewing

angles and cell gaps, and deriving a range of the cell gaps;

[[based upon]]<u>calculating</u> data relating to a plurality of panel transmittance <u>rates</u> and their

respective color gamut<u>s</u>, providing an expression of the relationships between the plurality of

panel transmittance <u>rates</u> and their respective color gamut, and deriving at least one cell gap

value;

[[based upon]]<u>obtaining</u> data relating to the plurality of color filter films and testing

modules, providing a set of expressions of relationships including the relationship of color filter

film thickness with color filter characteristics, the relationship of color filter characteristics with

liquid crystal testing module, and determining color filter standard and product standard based

upon the above relationship; and

correcting product color characteristics based upon the ratio of measured value with

modeling value.

20.   (original)   The system of claim 19, wherein a computer program is used to perform

the steps.